

Comparisons of Job Characteristics

Focus Occupation: **Maintenance Workers, Machinery (49-9043)**

Associated Occupation: **Millwrights (49-9044)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Millwrights (49-9044)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	22.9	21.8	0	Current knowledge level may be sufficient
Mathematics	9.2	15.8	11.7	<<	Extensive education and/or training may be required
Building and Construction	4.0	11.7	10.3	<	Expanded education and/or training may be required
Design	5.2	11.0	9.2	<	Expanded education and/or training may be required
Physics	4.3	9.7	7.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 64

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Millwrights (49-9044)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Installation	1.7	13.7	4.3	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	11.9	11.9	0	Current skill level may be sufficient
Operation Monitoring	6.6	11.6	11.9	0	Current skill level may be sufficient
Repairing	3.4	11.1	11.8	0	Current skill level may be sufficient
Troubleshooting	4.5	11.1	11.0	0	Current skill level may be sufficient
Operation and Control	5.4	10.0	10.6	0	Current skill level may be sufficient
Quality Control Analysis	5.9	9.8	10.0	0	Current skill level may be sufficient
Equipment Selection	3.3	7.6	8.5	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 88			
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Millwrights (49-9044)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	12.5	9.5	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	12.2	8.2	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	12.0	9.4	<	Some improvement in abilities may be required
Visualization	7.5	12.0	10.0	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.9	9.7	<	Some improvement in abilities may be required
Extent Flexibility	4.8	11.4	7.9	<<	Extensive improvement in abilities may be required
Trunk Strength	5.7	11.2	7.5	<<	Extensive improvement in abilities may be required
Static Strength	5.0	11.1	8.4	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	9.4	5.8	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	8.8	4.4	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	8.3	3.8	<<	Extensive improvement in abilities may be required
Dynamic Strength	3.5	8.1	5.3	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.6	3.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 91
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Millwrights (49-9044)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Adjust or set mechanical controls or components	69	
Construct, erect, or repair wooden frameworks or structures	73	

Erect scaffold	56
Fabricate sheet metal parts or items	80
Fabricate, assemble, or disassemble manufactured products by hand	11
Install equipment or attachments on machinery or related structures	48
Lubricate machinery, equipment, or parts	59
Maintain or repair industrial or related equipment/machinery	39
Move materials or goods between work areas	72
Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Perform safety inspections in industrial, manufacturing or repair setting	32
Read specifications	23
Read work order, instructions, formulas, or processing charts	9
Repair or replace malfunctioning or worn mechanical components	62
Signal directions or warnings to coworkers	42
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use basic carpentry techniques	62
Use control or regulating devices to adjust or maintain industrial machinery	89
Use hand or power tools	2
Use high voltage apparatus	76
Use knowledge of metric system	39
Use measuring devices in repairing industrial or heavy equipment	84
Use pneumatic tools	66
Use precision measuring devices in mechanical repair work	61
Use pressure gauges	76
Work as a team member	36

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Maintenance Workers, Machinery (49-9043)
Associated Occupation: Millwrights (49-9044)

Tools and Technologies	Exclusivity
Bandsaws and accessories	26
Computers	1
Cutting and crimping and punching tools	3
Cutting tools	18
Dispensing tools	6
Face and head protection	7
Fastener setting tools	12
Forming tools	2

Hearing protectors	12
Holding and clamping tools	3
Industrial trucks	10
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Machinery for working wood and stone and ceramic and the like	12
Measuring and layout tools	3
Metal bending and forming machinery	17
Power tools	2
Respiratory protection	6
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.